

### Nine-Mile Antenna Gets Transatlantic Radio Signals

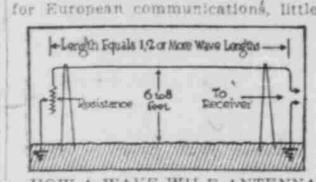
BY PAUL F. GODLEY America's Foremost Radio Authority

on Long Island for trans-Atlantic radio reception. But it is only 15



more desirable it becomes as an an- but few interruptions,

As installed on the Atlantic coast



tic interference difficulty is now had because of than any other static except that due to local thun- do with the key of the office." derstorms. Even these effects are of dodged by the association of several stand. he long-wire stations spread along the coast from

only from those! Most thunderstorms originate over directions toward land and pass out to sea. Thunderwhich it points storms which prevent operation of This is accomplished at Bar Harbor are usually of in-

When but one wave length long. Since all these stations are con the wire is quite directional in its nected by telegraph, it becomes an characteristics. When two wave easy matter then to shift operations lengths long, it is decidedly more from one to the other. In this way directional. The longer it is, the European traffic comes through with

#### Canaries Give Radio Concert



on a unique concert given by a group of trained canaries. The vere trained under the direction of Prof. A. H. Hazlett of Berkeley, Due to the delicate tones of the birds, only those fans with sensitive recould pick up the concert, for tuning was necessary



ANTONY GILLINGHAM, a gentle- do Mt. Could you?"

man adventurer, entered the house to visit Mark's guest, BILL BEVERLEY, he found

locked the door if the keys were he did want to know how many on the outside? puzzled Antony, there were. He discusses some of the mys- "Right," said Antony. "I'll fin terious clues with Bill Beverley. | out." GO ON WITH THE STORY

a little. Then he took his pipe out Street," he said slowly. "Now I've of his mouth and turned to his come to the club and I'm going past

plete Watson?" he asked. Watson?"

one. Are you prepared to have quite -eight-nine, another broad step; obvious things explained to you, to nine-ten-eleven. Eleven-I'm inask futile questions, to give me side. Good morning, Rogers. Fine chances of scoring off you. Because day again." With a little start he

edly, "need you ask?" Antony said to Bill with a smile. "Eleven," he nothing, and Bill went on happily said. Count them the next time to himself, "I perceive from the you're there. Eleven-and now I strawberry-mark on your shirt-front hope I shall forget it again." that you had strawberries for des- Bill was distinctly interested. sert. Holmes, you astonish me. "That's rather hot," he said. "Ex-Tut, tut, you know my methods, pound. Where is the tobacco? The tobacco "Well, I can't explain it, whether is in the Perstan slipper. Can I it's something in the actual eyes, or leave my practice for a week? I something in the brain, or what,

ing. After waiting hopefully for a sciously. You know that game where minute or two. Bill said in a firm you look at a tray full of small ob-

"Wel then, Holmes, I feel bound turn away and try to ask you if you have deduced any- them. It means a devil of a lot of

"Do you remember," he said, "one plete, but in some odd way I manage of Hoimes' little scores over Watson to do it without concentration at all. about the number of steps up to the "I should think that's rather a Paker Street lodging? Poor old Wat- useful gift for an amateur detective. son had been up and down them a You ought to have gone into the prothousand times, but he had never fession before." thought of counting them, whereas "Well, it is rather useful. It's You may depend upon Lydia E.

ter of course, and knew that there The body of the ne'er-do-well were 17. And that was supposed to be the difference between observa-ROBERT ABLETT, was found on tion and non-observation. Watson the floor of the locked office of was crushed again, and Holmes appeared to him more amazing than ever. Now, it always seemed to me where to be found. In the eyes of that in that matter Holmes was the Inspector Birch, it was clear that ass, and Watson the sensible person. Mark had shot Robert, particu- What on earth is the point of keeplarly since everyone knew that ing in your head an unnecessary Mark learned with disgust and fact like that? If you really want annoyance of Robert's return to know at any time the number of from his 15-year stay in Aus- steps to your lodging, you can ring up your landlady and ask her. I've But the circumstances were mys- been up and down the steps of the erious. The shot was heard two club a thousand times, but if you

"I certainly couldn't," said Bill. "But if you really wanted to know," said Antony casually, with a MATT CAYLEY. Mark's constant sudden change of voice, "I could companion, pounding on the find out for you without even bothlocked door and demanding ad- ering to ring up the hall-porter." mistance. The two men entered Bill was puzzled as to why they through a window and found the were talking about the club steps, body. How could Mark have but he felt it his duty to say that

Anthony smoked thoughtfully for "I'm walking up St. James "Are you prepared to be the com- two-three-four. Now I'm at the

them. One-two-three-four-five "Do you-follow-me-Watson; that -six; then a broad step;; six-seven "My dear Tony," said Bill delight- his present surroundings. He turned

Antony smiled and went on smok- habit of recording things uncon-

Holmes had counted them as a mat- rather surprising, you know, to a

#### RADIO PRIMER

containing iron occurring in several forms. It is used in radio as a low other-" Antony hesitated.

tranger, et's surprise Cayley with

-"let's ask him what he's going to safest that way." For a moment Bill did not under-

type of antennae, Asbury Park, N. J., to Bar Harbor, ly. "You don't mean-Tony! What mean that Cayley-But what about thing.

> "I don't know where Mark is- it?" that's another thing I want to know -but I'm quite certain that he more. hasn't got the key of the office with him. Because Cayley's got it."

he had it. I know that when I came ley killed him. on him this afternoon, he had just

the way you were explaining just I'm not, you see."

the billlard-room. "Outside the billiard-room door." "Outside. But it was inside when we looked just now."

"Exactly." "Who put it there?" "Obviously Cayley,"

room key at the time; I must have How's that?" done so without knowing. Probably when I saw Cayley banging at the door I may have wondered sub-consciously whethey the key of the room next to it would fit. Well, when I was sitting out by myself on that seat just before you came along, I I began to wonder if the office key had been outside too. When Cayley came up. I told you my idea and you were both interested. But Cayley



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the other way round?"

"Well, of course that proved "Yes." He thought for a moment nothing; and the key business didn't whatever side of the door the other gone into the room first, and seen keys were. Mark might have locked Robert on the ground." his own private room from the in- "Well?" side sometimes. But I piled it on, and pretended that it was enormous- "And what does he say to Mark? ly important, and quite altered the That it's a fine afternoon, and could case altogether, and having got Cay- he lend him a pocket-handkerchief

ley thoroughly anxious about it, as Or does he ask him what's hap-I expected, he couldn't resist. He pened?" altered the keys and gave himself "Well, of course, I suppose he asks side. Why didn't he alter that?"

noticed it already. And for an- by-by doing what, Bill? Encourag-

"It's only guesswork. But I fancy that Cayley was thoroughly upset about the key business. He didn't want to commit himself definitely to the statement that the key "Well, let's ask him-" Antony was either outside or inside. He has been forgotten. Tale powder, stopped and looked at Bill comically wanted to leave it vague. It was shaving creams, shaving powders,

> "I see," said Bill slowly. was wondering suddenly about Cay-

"Now then, Watson," said Anthony do you mean? Good God! do you saidenly. "It's time you said some-

"Simply that Robert Ablett died in he office this afternoon, and that "Of course, I don't really know Cayley knows exactly how he died. that he's got it, but I do know that That's all. It doesn't follow that Cay-

locked the door and put the key in Bill gave a sigh of relief. "He's just shielding Mark, what?" "That's the simplest explanation if

time, but that you've only just re- you're a friend of Cayley and want membered it-reconstructed it-in to let him down lightly. But then "Why isn't it simple, anyhow?"

Well, let's have the explanation see something. I saw the key of then, and I'll undertake to give you a simpler one afterward. Only renember-the key is on the outside of the door to start with."

"Yes; well, I don't mind that. Mark time to get away, locks the "Let's go back to this afternoon. I door, and pretends that Mark has don't remember noticing the billiard- locked it, and that he can't get in.

"Hopeless, Watson, hopeless." "How does Cayley know that it is

daresay you didn't notice it, but he Mark who has shot Robert, and no

"Oh!" said Bill, rather upset "All right. Say that Cayley has

what happened," said Bill reluctant-

"Because he's a clever devil. For "Explains that the revolver went one thing, the inspector had been in off accidnetally during a struggle. ore the library, and might possibly have "Whereupon Cayley shields him "What?" said Bill, after waiting that any man could possibly doconfess his guilt by running away. (Continued in Our Next Issue)

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